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1.

Release Date: 11-25-2013Open Date: 11-25-2013Due Date: 02-04-2014Close Date: 02-04-2014

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2.

Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date: 10-15-2013

DOE SBIR DE-FOA-0000969 1 DOE SBIR DE-FOA-0000969 1 ...

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3. [u: A Source and Production Method for Acetyl-Triacylglycerols \(ac-TAGs\)](#)

Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date: 10-15-2013

Biodiesel can substitute for conventional petroleum diesel in almost all applications. Oftentimes, use of biodiesel requires engine modification since biodiesel has different solvent properties and often degrades natural rubber. Since use of biodiesel is increasing rapidly, alternative biofuel supplies are needed to accommodate the growing demand. Michigan State Universitys GLBRC inventions provid ...

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4. [g: Accelerator Control and Diagnostics](#)

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

Grant applications are sought to develop (1) advanced beam diagnostics concepts and devices that provide high speed computer-compatible measurement and monitoring of particle beam intensity, position, emittance, polarization, luminosity, momentum profile, time of arrival, and energy (including such advanced methods as neural networks or expert systems, and techniques that are nondestructive to the ...

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5. [h: Accelerator Control and Diagnostics](#)

Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date: 10-15-2013

Grant applications are sought to develop (1) advanced beam diagnostics concepts and devices that provide high speed computer-compatible measurement and monitoring of particle beam intensity, position, emittance, polarization, luminosity, momentum profile, time of arrival, and energy (including such advanced methods as neural networks or expert systems, and techniques that are nondestructive to the ...

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[6. a: Accelerator Development and Modeling of Advanced Concepts](#)

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

Grant applications are sought to develop new or improved accelerator designs and supporting modeling that can provide efficient acceleration of intense particle beams in either linacs or synchrotrons. Efficient acceleration refers to beam losses of less than 1 W/m. Topics of interest include: (1) linac configurations, either pulsed or CW, capable of delivering >1 MW beams at energies between 1- ...

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[7. a: Accelerator Modeling and Control](#)

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

Grant applications are sought to develop new or improved computational tools for the design, study, or operation of charged particle beams. Of particular interest is the development of a front-end design for user-friendly interfaces. The modeling challenges addressed must be relevant to present and future BES accelerator facilities. These challenges include, but are not limited to, beam halo gener ...

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[8. a: Accessibility of Climate Model Data to Non-Researchers](#)

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

The purpose of this subtopic is to broaden the usage of federally-funded, long-term climate change simulations of high-end climate models, such as the Community Climate System Model, the NOAA Geophysical Fluid Dynamics Laboratory model, and the NASA Goddard Institute for Space Studies model. Therefore, grant applications are sought to develop technology for making the output of these models more a ...

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[9. b: Accessibility of Integrated Assessment Models, Data, and Tools to Non Researchers](#)

Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date: 10-15-2013

The purpose of this subtopic is to improve the accessibility of Integrated Assessment data, models, and tools to non-researchers, including improved interfaces and visualization systems for conducting analyses and interpreting data. In particular, efforts should seek to develop and-or improve capabilities for accessing information in ways that accommodate the

needs of various sectors, cross-secto ...

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10. [d: Active Pixel Sensors](#)

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date:
09-17-2011

Active Pixel Sensors in CMOS (complementary metal-oxide semiconductor) technology are replacing Charge Coupled Devices as imaging devices and cameras for visible light. Several laboratories are exploring the possibility of using such devices as direct conversion particle detectors. The charge produced by an ionizing particle in the epitaxial layer is collected by diffusion on a sensing electrode i ...

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